CBE CBE COO

APPENDIX A

ROBUST SUMMARIES

IUCLID

Data Set

Existing Chemical

CAS No.

: ID: 4083-64-1 : 4083-64-1

EINECS Name

: p-toluenesulphonyl isocyanate

EC No.

: 223-810-8

Molecular Formula

: C8H7NO3S

Producer related part

Company

: Epona Associates, LLC

Creation date

: 09.06.2003

Substance related part

Company

: Epona Associates, LLC

Creation date

: 09.06.2003

Status

:

Memo

: ISOCHEM Inc.

Printing date

: 01.06.2004

Revision date

:

Date of last update

: 01.06.2004

Number of pages

: 7

Chapter (profile)

: Chapter: 2.1, 2.2, 2.4, 2.5, 2.6.1, 3.1.1, 3.1.2, 3.3.1, 3.5, 4.1, 4.2, 4.3, 5.1.1,

5.1.2, 5.1.3, 5.1.4, 5.4, 5.5, 5.6, 5.8.1, 5.8.2

Reliability (profile)

: Reliability: without reliability, 1, 2, 3, 4

Flags (profile)

Flags: without flag, confidential, non confidential, WGK (DE), TA-Luft (DE), Material Safety Dataset, Risk Assessment, Directive 67/548/EEC, SIDS

2. Physico-Chemical Data

ld 4083-64-1 Date 01.06.2004

(13)

2.1 **MELTING POINT**

: =-2 °C Value

Sublimation

Method

: 2002 Year GLP : no data

Test substance : as prescribed by 1.1 - 1.4

: Freezing Point Remark

Source : Epona Associates, LLC Reliability : (2) valid with restrictions

Flag : Critical study for SIDS endpoint

09.06.2003 (13)

2.2 **BOILING POINT**

Value = 144 °C at 1333 hPa

Decomposition

Method

Year : 2002 : no data **GLP**

Test substance : as prescribed by 1.1 - 1.4

Remark : Pressure 10 mm Hg Source : Epona Associates, LLC Reliability : (2) valid with restrictions

: Critical study for SIDS endpoint Flag

01.06.2004 (13)

2.4 **VAPOUR PRESSURE**

Value = 1.33 hPa at 100 °C

Decomposition

Method

Year : 2002 GLP : no data

Test substance : as prescribed by 1.1 - 1.4

Result : 1 mm Hg @ 100 deg C Source : Epona Associates, LLC Reliability : (2) valid with restrictions : Critical study for SIDS endpoint

01.06.2004

2.5 **PARTITION COEFFICIENT**

Partition coefficient : octanol-water Log pow : = .82 at °C

pH value

Method

: 1979 Year **GLP** : no data Test substance : other TS

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2. Physico-Chemical Data

ld 4083-64-1 Date 01.06.2004

(4)

Remark : PTSI reacts rapidly with excess water to form the corresponding carbamic

acid, which in turn, undergoes immediate decomposition to form carbon

dioxide and p-toluenesulfonamide (CAS number 70-55-3).

Source : Epona Associates, LLC

Test substance : CAS Registry Number: 70-55-3

Chemical Name: P-TOLUENESULFONAMIDE Synonyms: 4-METHYLBENZENESULFONAMIDE

Molecular Formula: C7H9NO2S

Molecular Weight: 171.22

Reliability (2) valid with restrictions

Flag Critical study for SIDS endpoint 02.04.2004

2.6.1 SOLUBILITY IN DIFFERENT MEDIA

Solubility in : Water

Value : = 1318 mg/l at 25 °C

pH value

at °C

concentration

Temperature effects

Examine different pol.

pKa at 25 °C

Description

Stable : no

Deg. product

Method : other: estimated

Year 2004 : GLP : no

Test substance as prescribed by 1.1 - 1.4

Deg. products 70-55-3 200-741-1 toluene-4-sulphonamide

Remark : PTSI reacts rapidly with excess water to form the corresponding carbamic

acid, which in turn, undergoes immediate decomposition to form carbon

dioxide and p-toluenesulfonamide (CAS number 70-55-3).

Result : WSKOW v1.41 Results

Log Kow (estimated): 2.34

Log Kow (experimental): not available from database Log Kow used by Water solubility estimates: 2.34

Equation Used to Make Water Sol estimate:

Log S (mol/L) = 0.693-0.96 log Kow-0.0092(Tm-25)-0.00314 MW +

Correction

Melting Pt (Tm) = -2.00 deg C (Use Tm = 25 for all liquids)

Correction(s): Value

No Applicable Correction Factors

Log Water Solubility (in moles/L): -2.175 Water Solubility at 25 deg C (mg/L): 1318

Source : Epona Associates, LLC

Test condition : log Kow used: 2.34 (estimated) no-melting pt equation used

(2) valid with restrictions

Reliability

Flag : Critical study for SIDS endpoint

02.04.2004 (7)

ld 4083-64-1 **Date** 01.06.2004

(1)

3.1.1 PHOTODEGRADATION

Type : air Light source :

Light spectrum : nm

Relative intensity : based on intensity of sunlight

DIRECT PHOTOLYSIS

Halflife t1/2 : ca. 8.8 day(s)

Degradation : % after

Quantum yield INDIRECT PHOTOLYSIS

Sensitizer

Conc. of sensitizer

Rate constant : = .0000000000122 cm³/(molecule*sec)

Degradation: % afterDeg. product: not measuredMethod: other (calculated)

Year : 2004 GLP : no

Test substance : as prescribed by 1.1 - 1.4

Result : SUMMARY (AOP v1.91): HYDROXYL RADICALS

Hydrogen Abstraction = 0.1360 E-12 cm3/molecule-sec
Reaction with N, S and -OH = 0.0000 E-12 cm3/molecule-sec
Addition to Triple Bonds = 0.0000 E-12 cm3/molecule-sec
Addition to Olefinic Bonds = 0.0000 E-12 cm3/molecule-sec
**Addition to Aromatic Rings = 1.0883 E-12 cm3/molecule-sec
Addition to Fused Rings = 0.0000 E-12 cm3/molecule-sec

OVERALL OH Rate Constant = 1.2243 E-12 cm3/molecule-sec

HALF-LIFE = 8.737 Days (12-hr day; 1.5E6 OH/cm3)

HALF-LIFE = 104.839 Hrs

** Designates Estimation(s) Using ASSUMED Value(s)

SUMMARY (AOP v1.91): OZONE REACTION

****** NO OZONE REACTION ESTIMATION ****** (ONLY Olefins and Acetylenes are Estimated)

Source

: Epona Associates, LLC

Test substance

: SMILES : O=C=NS(=O)(=O)c(ccc(c1)C)c1

CHEM: Benzenesulfonyl isocyanate, 4-methyl-

MOL FOR: C8 H7 N1 O3 S1

MOL WT: 197.21

Reliability

: (2) valid with restrictions

Flag

: Critical study for SIDS endpoint

02.04.2004

3.1.2 STABILITY IN WATER

Type : abiotic

t1/2 pH4 : < 10 minute(s) at 25 °C t1/2 pH7 : < 10 minute(s) at 25 °C t1/2 pH9 : < 10 minute(s) at 25 °C

Deg. product

Method : other Year : 2004 GLP : no

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Test substance as prescribed by 1.1 - 1.4

Deg. products 70-55-3 200-741-1 toluene-4-sulphonamide

Result HYDROWIN Program (v1.67) Results:

Compound has an ISOCYANATE group; C=O located at SMILES atom #:

***** CALCULATION NOT PERFORMED *****

Even at low pH, the hydrolysis rate is very fast: t1/2 < 10 minutes.

Source : Epona Associates, LLC

Test substance : SMILES: O=C=NS(=O)(=O)c(ccc(c1)C)c1

CHEM: Benzenesulfonyl isocyanate, 4-methyl-

MOL FOR: C8 H7 N1 O3 S1

MOL WT: 197.21

Reliability (2) valid with restrictions : Critical study for SIDS endpoint Flag

02.04.2004

(5)

3.3.1 TRANSPORT BETWEEN ENVIRONMENTAL COMPARTMENTS

Type fugacity model level III

Media

Air % (Fugacity Model Level I) Water % (Fugacity Model Level I) Soil % (Fugacity Model Level I) Biota % (Fugacity Model Level II/III) Soil % (Fugacity Model Level II/III)

Method other: estimated

Year 2004

Remark PTSI reacts rapidly with excess water to form the corresponding carbamic

> acid, which in turn, undergoes immediate decomposition to form carbon dioxide and p-toluenesulfonamide (CAS number 70-55-3). PTSI is not likely

to be found in the environment.

Result : Level III Fugacity Model (Full-Output):

Air

Chem Name : Benzenesulfonyl isocyanate, 4-methyl-

Molecular Wt: 197.21

Henry's LC: 5.69e-005 atm-m3/mole (Henrywin program)

Vapor Press: 5.29 mm Hg (Mpbpwin program)

Log Kow : 2.34 (Kowwin program) Soil Koc: 89.7 (calc by model)

Mass Amount Half-Life Emissions

(percent) (hr) (kg/hr) Air 6.04 210 1000 Water 31.3 900 1000 62.5 900 Soil 1000 Sediment 0.174 3.6e+003 0

Fugacity Reaction Advection Reaction Advection (kg/hr) (percent) (percent) (atm) (kg/hr) 1.22e-010 326 986 10.9 32.9 17

7.36e-010 393 510 Water 13.1 6.66e-009 785 Soil 26.2 0 Λ

Sediment 6.5e-010 0.547 0.0568 0.0182 0.00189

Persistence Time: 544 hr

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Reaction Time: 1.08e+003 hr Advection Time: 1.09e+003 hr

Percent Reacted: 50.1 Percent Advected: 49.9

Half-Lives (hr), (based upon Biowin (Ultimate) and Aopwin):

Air: 209.7 Water: 900 Soil: 900 Sediment: 3600

Biowin estimate: 2.689 (weeks-months)

Advection Times (hr):
Air: 100
Water: 1000

Water: 1000 Sediment: 5e+004

Source : Epona Associates, LLC

Test substance : Chem Name : Benzenesulfonyl isocyanate, 4-methyl-

Molecular Wt: 197.21 (2) valid with restrictions

Reliability : (2) valid with restrictions
Flag : Critical study for SIDS endpoint

05.04.2004 (6)

3.5 BIODEGRADATION

Type : anaerobic

inoculum : Pseudomonas sp. (Bacteria)

Contact time

Degradation : (±) % after

Result : other: low biodegradability

Deg. product

Method

Year : 2001 GLP : no data

Test substance : other TS

Remark : PTSI reacts rapidly with excess water to form the corresponding carbamic

acid, which in turn, undergoes immediate decomposition to form carbon

dioxide and p-toluenesulfonamide (CAS number 70-55-3).

Result : A bacterium capable of utilising p-toluenesulphonamide was isolated from

activated sludge. The isolated strain designated PTSA was identified as a

Pseudomonas sp. using chemotaxonomic and genetic studies.

Pseudomonas PTSA

grew on p-toluenesulphonamide in a chemostat with approximately 90% release of sulphate and 80% release of ammonium. The isolate was also

able

to grow on 4-carboxybenzenesulphonamide and 3,4-dihydroxybenzoate

but did

not grow on p-toluenesulphonate. The transient appearance of

4-hydroxymethylbenzenesulphonamide and 4-

carboxybenzenesulphonamide during

p-toluenesulphonamide degradation proves oxidation of the methyl group is

the initial attack in the biodegradation pathway. Both metabolites of p-toluenesulphonamide degradation were identified by high-performance

liquid chromatography-mass spectrometry. 4-

Carboxybenzenesulphonamide is

probably converted into 3,4-dihydroxybenzoate and amidosulphurous acid.

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The latter is a chemically unstable compound in aqueous solutions and immediately converted into sulphite and ammonium. Both sulphite and

ammonium were formed during degradation of 4-

carboxybenzenesulphonamide.

Source

: Epona Associates, LLC

Test substance

: CAS Registry Number: 70-55-3

Chemical Name: P-TOLUENESULFONAMIDE Synonyms: 4-METHYLBENZENESULFONAMIDE

Molecular Formula: C7H9NO2S

Molecular Weight: 171.22

Reliability

(2) valid with restrictions

Flag 02.04.2004 : Critical study for SIDS endpoint

(11)

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(3)

4.1 ACUTE/PROLONGED TOXICITY TO FISH

Type

Species

Exposure period : 96 hour(s)
Unit : mg/l
LC50 : = 1314
LC50 (14-day) : = 2005

Method : other: estimated

Year : 2004
GLP : no
Test substance : other TS

Remark : PTSI reacts rapidly with excess water to form the corresponding carbamic

acid, which in turn, undergoes immediate decomposition to form carbon dioxide and p-toluenesulfonamide (CAS number 70-55-3). PTSI is not likely

to be found in the environment.

Result : ECOSAR v0.99g Class(es) Found

Neutral Organics

ECOSAR Predicted
Class Organism Duration End Pt mg/L

(ppm)

Neutral Organic SAR: Fish 14-day LC50 2005.498

(Baseline Toxicity)

Neutral Organics: Fish 96-hr LC50 1314.445

Source : Epona Associates, LLC
Test condition : MOL FOR: C7 H9 N1 O2 S1

MOL WT : 171.22

Log Kow: 0.92 (KowWin estimate)

Melt Pt:

Wat Sol: 9619 mg/L (calculated)
: SMILES: O=S(=O)(N)c(ccc(c1)C)c1

CHEM: Benzenesulfonamide, 4-methyl-

Reliability : (2) valid with restrictions

Flag : Critical study for SIDS endpoint

05.04.2004

Type : flow through

Test substance

Species : Oncorhynchus mykiss (Fish, fresh water)

 Exposure period
 : 60 day(s)

 Unit
 : mg/l

 Effect Conc
 : = 9

 Method
 : other

 Year
 : 1996

 GLP
 : no data

GLP : no data
Test substance : other TS

Remark : PTSI reacts rapidly with excess water to form the corresponding carbamic

acid, which in turn, undergoes immediate decomposition to form carbon dioxide and p-toluenesulfonamide (CAS number 70-55-3). PTSI is not likely

to be found in the environment.

Result: Effect Endpoint Type:

Effect Code (EFF): GPHY - physiology, general

Trend (TREND): CHG - change

Effect Category (EFFCAT): PHY - physiological: change in the organic

processes or functions of an organism

4. Ecotoxicity

Id 4083-64-1 Date 01.06.2004

Effect Tissue (TISSUE): BL - blood

Source

Epona Associates, LLC

Test condition

: Age/Life Stage: ADULT, 206.5-670.7 G (grams)

Exposure Regimen: 60 (test duration); NR - not reported (minimum

NR - not reported (maximum duration); Units: MI -

minutes

Controls: M - multiple types of controls were reported by the

author

Test substance

: CAS Registry Number: 70-55-3

Chemical Name: P-TOLUENESULFONAMIDE Synonyms: 4-METHYLBENZENESULFONAMIDE

Molecular Formula: C7H9NO2S Molecular Weight: 171.22

Reliability

(2) valid with restrictions

05.04.2004

(8)

ACUTE TOXICITY TO AQUATIC INVERTEBRATES 4.2

Type

other

Species

other: Daphnia

Exposure period

Unit

Method

: other: estimated

Year **GLP**

: 2004 : no

Test substance

other TS

Remark

PTSI reacts rapidly with excess water to form the corresponding carbamic acid, which in turn, undergoes immediate decomposition to form carbon dioxide and p-toluenesulfonamide (CAS number 70-55-3). PTSI is not likely

to be found in the environment.

Result

: ECOSAR v0.99g Class(es) Found

Neutral Organics

ECOSAR

Predicted

Class

Organism Duration End Pt mg/L (ppm)

1307.201

Neutral Organics: Daphnid 48-hr LC50

Neutral Organics: Daphnid 16-day EC50

41.797

(3)

Source

Epona Associates, LLC

Test condition

Test substance

MOL FOR: C7 H9 N1 O2 S1

MOL WT: 171.22

Log Kow: 0.92 (KowWin estimate)

Melt Pt:

Wat Sol: 9619 mg/L (calculated) : SMILES: O=S(=O)(N)c(ccc(c1)C)c1

CHEM: Benzenesulfonamide, 4-methyl-

Reliability

: (2) valid with restrictions

Flag

: Critical study for SIDS endpoint

12.04.2004

4.3 TOXICITY TO AQUATIC PLANTS E.G. ALGAE

Species

: other algae: Green algae

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4. Ecotoxicity

ld 4083-64-1 **Date** 01.06.2004

(3)

Endpoint

 Exposure period
 : 96 hour(s)

 Unit
 : mg/l

 EC50
 : = 767

Method : other: estimated

Year : 2004
GLP : no
Test substance : other TS

Remark: PTSI reacts rapidly with excess water to form the corresponding carbamic

acid, which in turn, undergoes immediate decomposition to form carbon dioxide and p-toluenesulfonamide (CAS number 70-55-3). PTSI is not likely

to be found in the environment.

Result : ECOSAR v0.99g Class(es) Found

Neutral Organics

ECOSAR

Class Organism Duration End Pt mg/L (ppm)

Source : Epona Associates, LLC
Test condition : MOL FOR: C7 H9 N1 O2 S1

MOL WT: 171.22

Log Kow: 0.92 (KowWin estimate)

Melt Pt:

Wat Sol: 9619 mg/L (calculated)

Test substance : SMILES : O=S(=O)(N)c(ccc(c1)C)c1

CHEM: Benzenesulfonamide, 4-methyl-

Reliability : (2) valid with restrictions
Flag : Critical study for SIDS endpoint

12.04.2004

5. Toxicity Id 4083-64-1

Date 01.06.2004

5.1.1 ACUTE ORAL TOXICITY

Type : LD50

Value : = 2600 mg/kg bw

Species Strain

Sex

Number of animals

Vehicle

Doses Method

Year : 2002 GLP : no data

Test substance: as prescribed by 1.1 - 1.4

Source : Epona Associates, LLC
Reliability : (2) valid with restrictions

Flag : Critical study for SIDS endpoint

09.06.2003 (13)

5.1.2 ACUTE INHALATION TOXICITY

5.1.3 ACUTE DERMAL TOXICITY

5.1.4 ACUTE TOXICITY, OTHER ROUTES

5.4 REPEATED DOSE TOXICITY

Type : Sub-acute

Species: ratSex: male/femaleStrain: other: Crj:CD(SD)

Route of admin. : gavage

Exposure period : 42 d prior to mating (M) or 14 d before mating through d 3 lactation (F)

Frequency of treatm. : daily

Post exposure period

Doses : 0, 120, 300, and 750 mg/kg

Control group : yes

Method : other: OECD 422

Year : 1994
GLP : yes
Test substance : other TS

Remark : PTSI reacts rapidly with excess water to form the corresponding carbamic

acid, which in turn, undergoes immediate decomposition to form carbon

dioxide and p-toluenesulfonamide (CAS number 70-55-3).

Result : Dose-related hypersalivation was observed in all treatment groups.

Significant decrease in body weight gains in the high-dose M relative to controls persisted throughout the dosing period. Relative kidney and liver weights were slightly increased in high-dose animals. A dose-dependent increase in white blood cells counts was observed in mid- and high-dose M and some F (1 low-, 12 mid-, and 7 high-dose groups). An increased

mber

number

of neutrophils were observed in high-dose M. BUN, GOT, and chloride

were

significantly elevated in the two highest dose groups (M). GPT levels were significantly elevated and potassium levels decreased in the high-dose M. Four animals from the high-dose groups displayed hematuria within the first

3 d of dosing. There was an involution of the thymus in 8 high- and

middosed

F.

: Rat, Crj:CD(SD), adult, age n.p., 13 M and 13 F/dose Animals dosed

orally (0,120, 300, and 750 mg/kg [0, 0.701,

1.75, and 4.38 mmol/kg]) for 42 d prior to mating (M) or 14

d before mating through d 3 lactation (F)

Test substance

Test condition

p-TSA in 5% gum Arabic solution, >99.9% pure

Reliability Flag

(1) valid without restriction

Critical study for SIDS endpoint

05.04.2004

(9)

5.5 **GENETIC TOXICITY 'IN VITRO'**

: Bacterial reverse mutation assay Type

System of testing : S. typhimurium strains TA98, TA100, TA1535, TA1537; Escherichia coli

WP2 ultra violet radiation A

: 0, 312.5, 625, 1250, 2500, 5000 µg/plate [1.825, 3.65, 7.300, 14.60, and Test concentration

> 29.20 µmol/plate] : 5000 ug/plate

Cycotoxic concentr. Metabolic activation

with and without :

Result

negative

Method Year

1994 : yes

GLP Test substance

: other TS

Remark

: PTSI reacts rapidly with excess water to form the corresponding carbamic acid, which in turn, undergoes immediate decomposition to form carbon

dioxide and p-toluenesulfonamide (CAS number 70-55-3).

Result : Mutagenic effects were not observed under the test

conditions. Minimum toxic concentration observed for bacteria was 5000 µg/plate [29.20 µmol/plate]

with and without activation.

Source

Epona Associates, LLC

Test substance

p-TSA in DMSO

Reliability

(1) valid without restriction

Flag

: Critical study for SIDS endpoint

05.04.2004

(9)(10)

Type

: Chromosomal aberration test

System of testing

CHL cells

Test concentration

Without S9: 0, 0.33, 0.65, 1.30 mg/mL [0, 1.93, 3.80, 7.59 mM]; with S9: 0,

0.43, 0.85, 1.70 mg/mL [0, 2.5, 5.0, 9.9 mM].

Cycotoxic concentr.

>2.0 mg/mL [11.68 mM] with metabolic activation and 2.0 mg/mL [11.68 mM] without metabolic

activation.

Metabolic activation

with and without

Result Method negative

Year GLP

1994 : yes

Test substance

: other TS

Remark

: PTSI reacts rapidly with excess water to form the corresponding carbamic

5. Toxicity Id 4083-64-1
Date 01.06.2004

acid, which in turn, undergoes immediate decomposition to form carbon

dioxide and p-toluenesulfonamide (CAS number 70-55-3).

Result : The test material was classified as "negative" for

chromosomal aberrations, under the test conditions. The lowest concentration producing cell toxicity was >2.0 mg/mL [11.68 mM] with metabolic activation and 2.0 mg/mL [11.68 mM] without metabolic

activation.

Source : Epona Associates, LLC

Test condition: Without S9: 0, 0.33, 0.65, 1.30 mg/mL [0, 1.93, 3.80, 7.59

mM]; with S9: 0, 0.43, 0.85, 1.70 mg/mL [0, 2.5, 5.0,

9.9 mM].

Test substance : p-TSA in DMSO, purity 99.9%
Reliability : (1) valid without restriction
Flag : Critical study for SIDS endpoint

05.04.2004 (10)

5.6 GENETIC TOXICITY 'IN VIVO'

5.8.1 TOXICITY TO FERTILITY

Type : One generation study

Species : rat

Sex : male/female Strain : other: Crj:CD(SD)

Route of admin. : gavage

Exposure period : 42 d prior to mating (M) or 14

d before mating through d 3

lactation (F)

Frequency of treatm. : daily

Premating exposure period

Male : 42 days Female : 14 days

Duration of test

No. of generation

studies

Doses : 0, 120, 300, and 750 mg/kg

Control group : yes

NOAEL F1 offspring : = 300 mg/kg bw Method : OECD Guide-line 422

Year : 1994
GLP : yes
Test substance : other TS

Result : In the high-dose group, newborns showed significant decrease in body

weight and survival rate. Two of the high-dose female rats showed signs of difficult labor; all their offspring died by d 3 of lactation. NOAEL for F1 generation was 300 mg/kg [1.75 mmol/kg] under the test conditions.

Source : Epona Associates, LLC

Test condition : Rat, Crj:CD(SD), adult, 13 M and 13 F/dose

Animals dosed orally (0,120, 300, and 750 mg/kg [0, 0.701, 1.75, and 4.38 mmol/kg]) for 42 d prior to mating (M) or 14

d before mating through d 3 lactation (F)

Test substance : p-TSA (99.9% pure)
Reliability : (1) valid without restriction
Flag : Critical study for SIDS endpoint

05.04.2004 (9)

5. Toxicity ld 4083-64-1 Date 01.06.2004

5.8.2 DEVELOPMENTAL TOXICITY/TERATOGENICITY

: rat

Sex : male/female Strain : other: Crj:CD(SD)

Route of admin. : gavage

Exposure period : Animals dosed orally for 42 d prior to mating (M) or 14 d before mating

through d 3 lactation (F)

Frequency of treatm. : daily

Duration of test

Doses

: 0, 120, 300, and 750 mg/kg

Control group

NOAEL teratogen. Method

= 300 - mg/kg bw other: OECD 422

Year GLP

1994 : ves

Test substance

: other TS

Result

Species

: Morphological observations for offspring revealed no teratogenic effect of

the test substance. NOAEL for F1 generation was 300 mg/kg [1.75

mmol/kg] under the test conditions.

Source

: Epona Associates, LLC

Test condition

Rat, Crj:CD(SD),

Maternal doses: 0, 120, 300, 750 mg/kg/d [0, 0.701, 1.75,

and 4.38 mmol/kg/d]

Test substance

: p-TSA (99.9% pure)

Reliability

Flag

(1) valid without restriction Critical study for SIDS endpoint

05.04.2004

(9)

(13)

00 Rev. C 05/09/02.

ld 4083-64-1 Date 01.06.2004

(1) Atmospheric Oxidation (25 deg C) [AopWin v1.90] (3)ECOSAR Program (v0.99g) (4)HANSCH, C.; LEO, A.J. (1981) MEDCHEM PROJECT. ISSUE NO. 19, CLAREMONT, CA: POMONA COLLEGE, 1981; BiblioLine(c) 1997-2004, NISC International, Inc. All Rights Reserved. www.nisc.com HYDROWIN Program (v1.67) (5)(6)Level III Fugacity Model (Full-Output) (7)Log Kow (WSKOW v1.40) POWELL, M.D.; S.F. PERRY (1996). Respiratory and Acid-Base Disturbances in Rainbow (8)Trout (Oncorhynchus mykiss) Blood During Exposure to Chloramine T, paratoluenesulphonamide, and.. Canadian Journal of Fisheries and Aquatic Sciences, 53(4): 701-708; 1996; BiblioLine(c) 1997-2004, NISC International, Inc. All Rights Reserved. www.nisc.com (9)Unpublished report on Combined Repeat Dose and Reproductive Developmental Toxicity Screening Test of (Specific chemical)- HPV/SIDS test conducted by MHW; cited by OECD (1994); EMEA (1999) citChloramine-T [127-65-1] and Metabolite p-Toluenesulfonamide [70-55-3] Review of Toxicological Literature (2002) Prepared for Scott Masten, Ph.D. National Institute of Environmental Health Sciences P.O. Box 12233 Research Triangle Park, North Carolina 27709 Contract No. N01-ES-65402 Submitted by Karen E. Haneke, M.S. Integrated Laboratory Systems P.O. Box 13501 Research Triangle Park, North Carolina 27709. (10)Unpublished report on Mutagenicity Test conducted by Ministry of Health and Welfare. Japan; cited by OECD (1994); cited in Chloramine-T [127-65-1] and Metabolite p-Toluenesulfonamide [70-55-3] Review of Toxicological Literature (2002) Prepared for Scott Masten, Ph.D. National Institute of Environmental Health Sciences P.O. Box 12233 Research Triangle Park, North Carolina 27709 Contract No. N01-ES-65402 Submitted by Karen E. Haneke, M.S. Integrated Laboratory Systems P.O. Box 13501 Research Triangle Park, North Carolina 2 (11)van Haperen, A M; van Velde, J W; van Ginkel, C G (2001) Akzo Nobel Chemicals Research Arnhem, Velperweg 76, 6824 BM, Arnhem, The Netherlands. F E M S Microbiology Letters, 204(2): pp. 299-304; 2001 Nov 13; BiblioLine(c) 1997-2004, NISC International, Inc. All Rights Reserved. www.nisc.com

VanDeMark Inc., Material Data Safety Sheet, p-Toluenesufonyl Isocyanate. Doc: SE-0029-